

685174 MIXED
 (MIXED OR MIXEDS)
 187574 ANHYDRIDE?
 3811 MIXED ANHYDRIDE?
 (MIXED (W) ANHYDRIDE?)
 2248 ASYMMETRICAL
 1 ASYMMETRICALS
 2259 ASYMMETRICAL
 (ASYMMETRICAL OR ASYMMETRICALS)
 95246 ASYM
 6 ASYMS
 95249 ASYM
 (ASYM OR ASYMS)
 96248 ASYMETRICAL
 (ASYMMETRICAL OR ASYM)
 187574 ANHYDRIDE?
 5 ASYMMETRICAL ANHYDRIDE?
 (ASYMMETRICAL (W) ANHYDRIDE?)
 1493 UNSYMMETRICAL
 13046 UNSYMMETRICAL
 14893 UNSYMMETRICAL
 (UNSYMMETRICAL OR UNSYM)
 187574 ANHYDRIDE?
 29 UNSYMMETRICAL ANHYDRIDE?
 (UNSYMMETRICAL (W) ANHYDRIDE?)
 L1 3838 MIXED ANHYDRIDE? OR ASYMMETRICAL ANHYDRIDE? OR UNSYMMETRICAL
 ANHYDRIDE?
 => s 11 and amino acid?
 902658 AMINO
 41 AMINOS
 (AMINO OR AMINOS)
 902675 AMINO
 4216179 ACID?
 575034 AMINO ACID?
 (AMINO (W) ACID?)
 L2 794 L1 AND AMINO ACID?
 => s 12 288161 ORGANIC
 3332 ORGANICS
 290934 ORGANIC
 (ORGANIC OR ORGANICS)
 793059 ORG
 12217 ORGS
 79721 ORG (ORG OR ORGS)
 888349 ORGANIC
 (ORGANIC OR ORG)
 562692 BASE
 130748 BASES
 644042 BASE
 (BASE OR BASES)
 8023 ORGANIC BASE
 (ORGANIC (W) BASE)
 5 L2 AND ORGANIC BASE
 => d 1-5
 L3 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS
 AN 1994:630588 CAPLUS
 DN 121:230588
 TI An improved process for the preparation of 6-.alpha.-aminopenicillins in
 nonhalogenated solvents
 IN Ferrero Barruelo, Oscar; Lopez Ortiz, Juan F.; Vitalier Alba, Alejandro;

Salto Maldonado, Francisco; Nieves Elvira, Rosa Maria
 PA Antibioticos, S.A., Spain
 SO Span. 6 PP.
 CODEN: SPXXAD
 DT Patent
 LA Spanish
 FAN. CNT 1
 PATENT NO. KIND DATE APPLICATION NO. DATE
 PI ES 2050621 A1 19940516 ES 1992-2244 19921106
 ES 2050621 B1 19941216
 PRAI ES 1992-2244
 OS CASREACT 121:230588
 L3 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS
 AN 1983:200183 CAPLUS
 DN 96:200183
 TI Tyrosine derivatives
 IN Kautmann, Klaus Dieter; Keilert, Manfred; Scholtissek, Peter
 PA Ger. Dem. Rep.
 SO Ger. (Fast) 13 FP.
 CODEN: GEXXAB
 DT Patent
 LA German
 FAN. CNT 1
 PATENT NO. KIND DATE APPLICATION NO. DATE
 PI DD 151304 Z 19811014 DD 1980-221677 19800609
 PRAI DD 1980-221677
 L3 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS
 AN 1971:140264 CAPLUS
 DN 75:6364 CAPLUS
 TI Peptides. VIII. .beta.-Dicarbonyl N-protected amino
 acids and model dipeptides
 AU Balog, Anton; Breazu, D.; Varga, Eugen; Gonczi, F.; Beu, Lucia
 CS Inst. Chem. Pharm. Res., Cluj, Rom.
 SO Revue Roumaine de Chimie (1970), 15 (9), 1375-90
 CODEN: RRCHAX; ISSN: 0035-3930
 DT Journal
 LA English
 L3 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2003 ACS
 AN 1965:1463473 CAPLUS
 DN 63:63473
 OREF 63:11689e-h,1169a-d
 TI Colored activated esters. IV. Reactions of Cbo-L-glutamic acid anhydride
 with 4-(4-chlorophenylazo)phenol
 AU Barth, Alfred
 CS Univ. Halle-Wittenberg, Germany
 SO Ann. Chem. (1965), 686, 221-6
 DT Journal
 LA German
 L3 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS
 AN 1965:44195 CAPLUS
 DN 63:44195
 OREF 63:7857h,7858a-b
 TI Separation of organic bases by Craig partition. V.
 Synthesis and separation of aminoacyl-ephedrine isomers, a new class of
 local anesthetics
 AU Schoenberger, H.; Brinkmann, R.; Bamann, E.
 CS Univ. Munich, Germany
 SO Arch. Pharm. (1964), 297(12), 721-7
 DT Journal

- LA German
SO Journal of the American Chemical Society (1999), 121 (2), 291-295
PB CODEN: JASAT; ISSN: 0002-7863
DT American Chemical Society
LA English
- => d abs 3
RE CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
LA ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L3 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS
AB The Dane procedure (1964) for N-blocking of amino acids with beta-dicarbonyl compounds. AcCH₂OR, R = OEt, Me, Ph, C₆H₅(OMe)₂ or 2-carbethoxycyclopentanone was modified: the Na or K salt of the dicarbonyl compound was treated with amino acids ("e.g.", glycine, alanine, valine, leucine, phenylglycine, etc.) to give forty-four N-blocked amino acid salts (Na or K) without racemization. The N-blocked amino acid salts were also converted into salts with org. bases, e.g., diethylhexylamine, piperidine, N-methylmorpholine, etc. These N-protected amino acid salts, when treated with dil. HCl, formed the corresponding N-blocked free amino acids. The blocking groups were hydrolyzed at lower pH (<3.5). The N-protected salts were coupled with Et₃N by a mixed anhydride method, to give the corresponding dipeptides.
- => S 12 and (phosphate or sulfate or sulphate or carboxylic)
- 13 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS
AB The Dane procedure (1964) for N-blocking of amino acids with beta-dicarbonyl compounds. AcCH₂OR, R = OEt, Me, Ph, C₆H₅(OMe)₂ or 2-carbethoxycyclopentanone was modified: the Na or K salt of the dicarbonyl compound was treated with amino acids ("e.g.", glycine, alanine, valine, leucine, phenylglycine, etc.) to give forty-four N-blocked amino acid salts (Na or K) without racemization. The N-blocked amino acid salts were also converted into salts with org. bases, e.g., diethylhexylamine, piperidine, N-methylmorpholine, etc. These N-protected amino acid salts, when treated with dil. HCl, formed the corresponding N-blocked free amino acids. The blocking groups were hydrolyzed at lower pH (<3.5). The N-protected salts were coupled with Et₃N by a mixed anhydride method, to give the corresponding dipeptides.
- => S 12 and (phosphate or sulfate or sulphate or carboxylic)
- 14 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS
AB The Dane procedure (1964) for N-blocking of amino acids with beta-dicarbonyl compounds. AcCH₂OR, R = OEt, Me, Ph, C₆H₅(OMe)₂ or 2-carbethoxycyclopentanone was modified: the Na or K salt of the dicarbonyl compound was treated with amino acids ("e.g.", glycine, alanine, valine, leucine, phenylglycine, etc.) to give forty-four N-blocked amino acid salts (Na or K) without racemization. The N-blocked amino acid salts were also converted into salts with org. bases, e.g., diethylhexylamine, piperidine, N-methylmorpholine, etc. These N-protected amino acid salts, when treated with dil. HCl, formed the corresponding N-blocked free amino acids. The blocking groups were hydrolyzed at lower pH (<3.5). The N-protected salts were coupled with Et₃N by a mixed anhydride method, to give the corresponding dipeptides.
- => d abs 3
RE CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
LA ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L5 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS
AB Studies on the disproportionation of mixed anhydrides of N-alkoxycarbonylamino acids
- AN 1993:473047 CAPLUS
DN 119,73047
TI Studies on the disproportionation of mixed anhydrides of N-alkoxycarbonylamino acids
- AU Benoiton, M.; Leo, Lee, Young, C.; Chen, Francis M. F.
CS Dep. Biochem., Univ. Ottawa, Ottawa, ON, Can.
SO International Journal of Peptide & Protein Research (1993), 41 (4), 338-41
CODEN: IJPPC3; ISSN: 0367-8377
DT Journal
LA English
- L5 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS
AN 1986:19791 CAPLUS
DN 104,19791
TI A kinetic study of phosphinic carboxylic mixed anhydrides
- AU Ramage, Robert; Attash, Butrus; Hopton, David; Parrott, Maxwell J.
CS Dep. Chem., Univ. Manchester Inst. Sci. Technol., Manchester, M60 1QD, UK
SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1985), (8), 1617-22
CODEN: JCPRB4; ISSN: 0300-923X
DT Journal
LA English
CRSRACT 104:19791
OS
- L5 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2003 ACS
AN 1982:104376 CAPLUS
DN 96:104376
TI Design of organophosphorus reagents for peptide synthesis
- AU Ramage, R.; Attash, B.; Parrott, M. J.
CS Inst. Sci. Technol., Univ. Manchester, Manchester, M60 1QD, UK
SO ACS Symposium Series (1991), 171 (Phosphorus Chem.), 199-204
CODEN: ACSM68; ISSN: 0097-6156
DT Journal
LA English
- L5 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS
AN 1963:33698 CAPLUS
DN 58:33698
OREF 58:9222e-h
TI Aqueous polymerization of N-carboxy-alpha-amino acid anhydrides
- AU Miwa, Thomas K.; Strahmann, Mark A.
CS U.S. Dept. of Agric., Peoria, IL
SO Polyamino Acids, Polypeptides, Proteins, Proc. Intern. Symp., Madison, Wisc. (1962), 1961, 81-92
DT Journal
LA Unavailable
- L5 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS
AN 1999:8631 CAPLUS
DN 130,153956
TI Oligomerization of N-O-bis(trimethylsilyl)-alpha-amino Acids into Peptides Mediated by o-Phenylenephosphorochloridate?
- AU Fu, Hua; Li, Zhao-Long; Zhao, Yu-Fen; Tu, Guang-Zhong
CS Bioorganic Phosphorus Chemistry Laboratory Department of Chemistry, Tsinghua University, Beijing, 100084, Peop. Rep. China
- => d abs 3
RE CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
LA ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L5 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS
AB The kinetics of disproportionation of phosphinic carboxylic mixed anhydrides derived from protected alpha-amino acids were studied by 32.4 MHz ³¹P NMR

spectroscopy as a function of the P substituents and the structure of the amino acid. The rates of disproportionation are insignificant from a preparative aspect compared with aminolysis at 0°.

=> d abs 5

L5 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS
AB CF:CA 50, 12822c. The effect of ions on polymerization of N-carboxyleucine amide in aq. systems was followed by allowing the polymerization to occur in the presence of various ions at different concns. and deg. their effects on turbidity formation, the extent of polymerized (deci.) at the end of the reaction as the fraction not hydrolyzed to the parent amino acid by colorimetric ninhydrin), and the rate of N-carboxy amino acid anhydride uptake (based on an anhydride hydroxamate method). The cations studied included PO₄³⁻, HCO₃⁻, cacodylate, and Cl⁻; the cations were Na⁺, Li⁺, and Ca²⁺. The common cation for the anions was NH₃⁺, while the common anion for the cations was Cl⁻. NH₃, L-leucine, and nucleic acids were also studied. The extent of polymerization increased with increase in concn. of the ion until an optimum concn. of the ion was reached, after which the polymerization decreased with increase in ionic concn. In most cases the rate of uptake of the N-carboxy amino acid anhydride increased with increase in the concn. of the ion. Exceptions were the chlorides of Na, Li, and H, which showed decreases at higher concns. NaOH, at concns. >10eq., that of the anhydride, was very effective in causing fast polymerization, while HCl, at concns. >10eq., that of the anhydride, inhibited the rate and extent of polymerization markedly. Deoxyribonucleic and ribonucleic acids produced max. amts. of polymers when the equiv. concn. of the nucleic acid phosphate was equal to the molar concn. of the N-carboxy amino acid anhydride. Propagation rate constants for these pseudo 1st order reactions were determined and the results showed NaOH solns. to have the highest rate constants and HCl solns. the lowest. The effects of the ions, especially the anions, were explained by postulation of a mechanism of polymerization involving a mixed anhydride intermediate of the particular anion and the N-carboxy amino acid. A by-product predicted by this mechanism was isolated, neutral benzoate being used as the anion. The by-product of the polymerization, benzoyl leucine, which was isolated by silica gel column chromatography, was apparently formed by means of a mixed anhydride of the benzoate anion and N-carboxyleucine.

=> d abs 1

L5 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS
AB N,O-bis(trimethylsilyl)-alpha-amino acids, mediated by o-phenylene phosphochloridate (PPC), could oligomerize into poly peptides. The mechanism might go through sequential steps, i.e., the activation of amino acid, the elongation of peptide chain, and the termination of elongation reaction, as can be traced by ³¹P NMR spectroscopy. The activated amino acid was a five-membered cyclic pentacoordinate phosphoric-carboxylic mixed anhydride. The nucleophilic attack of the amino group of an amino acid or a peptide on the carbonyl group of the intermediate led to the formation of peptide with release of a phosphate ester. The repetition of the reaction sequence generated successively longer N,O-bis(trimethylsilyl)peptides, which were then hydrolyzed to give a series of oligopeptides. It is worth noting that only the N,O-bis(trimethylsilyl)-alpha-amino acids, not the N,O-bis(trimethylsilyl)-beta-amino acids, could be activated and assembled into polypeptides. The

mechanism of the five-membered cyclic pentacoordinate phosphoric-acid anhydride intermediate showed that phosphorus could choose alpha-amino acids in the prebiotic synthesis of polyptides and biosynthesis of proteins.

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=> log hold
COST IN U.S. DOLLARS          SINCE FILE
SESSION 56.03                  ENTRY 55.82
FULL ESTIMATED COST           SINCE FILE
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE
CA SUBSCRIBER PRICE          ENTRY -2.60
SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:55:39 ON 10 MAR 2003
Connecting via Winsock to STN
LOGINID:ssspat1623zct
PASSWORD: * * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 11:38:20 ON 10 MAR 2003
FILE 'CAPLUS' ENTERED AT 11:38:20 ON 10 MAR 2003
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)
COST IN U.S. DOLLARS          SINCE FILE
SESSION 56.03                  ENTRY 55.82
FULL ESTIMATED COST           SINCE FILE
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE
CA SUBSCRIBER PRICE          ENTRY -2.60
=> d his
(FILE 'HOME' ENTERED AT 10:19:39 ON 10 MAR 2003)
FILE 'CAPLUS' ENTERED AT 10:39:52 ON 10 MAR 2003
L1 3338 S MIXED ANHYDRIDE? OR ASYMMETRICAL ANHYDRIDE? OR UNSYMMETRICAL
L2 794 S LI AND AMINO ACID?
L3 5 S L2 AND ORGANIC BASE
L4 128 S L2 AND (PHOSPHATE OR SULFATE OR CARBOXYLIC)
L5 5 S L4 AND AMINO ACID ANHYDRIDE?
=> s amino acid? and (chloroformate or chlorocarbonate)
932658 AMINO
932675 AMINO
(AMINO OR AMINOS)
426179 ACID?
575034 AMINO ACID?
(AMINO(W) ACID?)
17403 CHLOROFORMATE
1610 CHLOROFORMATES
17983 CHLOROFORMATE
(CHLOROFORMATE OR CHLOROCARBONATE)
1274 CHLOROCARBONATE
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164	CHLOROCARBONATES	DK 8905375	A	19900429	DK 1989-5375	19891027
	(CHLOROCARBONATE, OR CHLOROCARBONATES)	NO 8904300	A	19900430	NO 1989-4300	19891027
16	1338 AMINO ACID AND (CHLOROFORMATE OR CHLOROCARBONATE)	AU 8905030	A1	19900503	AU 1989-43867	19891027
	=> s 16 and (morpholine or nmm)	EP 3687119	A2	19900516	EP 1989-402976	19891027
27231 MORPHOLINE	EP 3687119	A3	19911002			
1110 MORPHOLINES	EP 3687119	B1	19970108			
27716 MORPHOLINE	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE	A2	19900528	HU 1389-5473	HU 1389-5473	19891027
(MORPHOLINE OR MORPHOLINES)	HU 209311	B	19904428			
743 NMM	JP 02172961	A2	19907034	JP 1989-278753	19891027	
7 NMMS	JP 2893227	B2	19906032			
750 NMM	FI 95272	B	19950929	FI 1989-5109	19891027	
(NMM OR NMMS)	FI 95272	C	19960110			
L7	58 L6 AND (MORPHOLINE OR NMM)	AT 147405	E	19970115	AT 1989-40276	19891027
	=> s 17 and addition	ES 2099072	T3	19970156	ES 1989-40276	19891027
123742 ADDITION	CN 1043004	A	19900704	CN 1389-108335	CN 1389-108335	19891028
13904 ADDITIONS	CN 1031880	B	19905029			
135217 ADDITION	US 5116927	A	19905059	US 1391-759057	US 1391-759057	19910905
(ADDITION OR ADDITIONS)	PRAI EP 1988-402735	A	19811028			
1311202 ADDN	US 1389-42255	B1	19810116			
66030 ADDNS	OS MARPAT 113:212691					
1353333 ADDN						
L8	ANSWER 1 OF 6 CAPLUS COPYRIGHT 2003 ACS	LB ANSWER 3 OF 6 CAPLUS COPYRIGHT 2003 ACS				
	1420193 ADDITION (ADDN OR ADDNS)	AN 1990:99261 CAPLUS				
	6 L7 AND ADDITION	DN 112:992611				
	=> d 1-6	TI Preparation of N-(phosphonocyclohexylhydroxypyropyl) derivatives of amino acids and dipeptides as renin inhibitors				
		IN Patel, Dinesh V.				
		PA Squibb, E. R., and Sons, Inc., USA				
		SO Eur. Pat. Appl., 1.21 pp.				
		CODEN: BXKDW				
		DT Patent				
		LA English				
		FAN.CNT 1				
		PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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		PI EP 331105	M2	19890906	EP 1989-103489	19890228
		EP 331105	A3	19900905		
		R: AT, BE, CH, DE, ES, FR, GB, IT, LI, LU, NL, SE	WO 8907940	WO 1989-US777	19890223	
		Patel, Dinesh V.	A1			
		PA Squibb, E. R., and Sons, Inc., USA	WO 8907940			
		SO Eur. Pat. Appl., 1.21 pp.				
		CODEN: BXKDW				
		DT Patent				
		LA English				
		FAN.CNT 1				
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		PI EP 331105	M2	19890906	EP 1989-103489	19890228
		EP 331105	A3	19900905		
		R: AT, BE, CH, DE, ES, FR, GB, IT, LI, LU, NL, SE	WO 8907940	WO 1989-US777	19890223	
		Patel, Dinesh V.	A1			
		PA Squibb, E. R., and Sons, Inc., USA	WO 8907940			
		SO Eur. Pat. Appl., 1.21 pp.				
		CODEN: BXKDW				
		DT Patent				
		LA English				
		FAN.CNT 1				
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		PI EP 371179	A1	19900616	EP 1988-402735	19881028
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		CA 2001265	AA	1989-2001265	19891023	
		CA 2001265	C	19901051	2A 1989-8026	
		ZA 8908026	A	1994075	19891024	
		IL 92102	A1	1994075	IL 1989-2102	
		SO Merrell Dow Pharmaceuticals, Inc., USA				
		CODEN: BXKDW				
		DT Patent				
		LA English				
		FAN.CNT 1				
		PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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		PI EP 371179	A1	19900616	EP 1988-402735	19881028
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		IL 92102	A1	1994075	IL 1989-2102	
		SO Merrell Dow Pharmaceuticals, Inc., USA				
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		LA English				
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		SO Merrell Dow Pharmaceuticals, Inc., USA				
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		CA 2001265	C	19901051	2A 1989-8026	
		ZA 8908026	A	1994075	19891024	
		IL 92102	A1	1994075	IL 1989-2102	
		SO Merrell Dow Pharmaceuticals, Inc., USA				
		CODEN: BXKDW				
		DT Patent				
		LA English				
		FAN.CNT 1				
		PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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		PI EP 371179	A1	19900616	EP 1988-402735	19881028
		R: FR				
		CA 2001265	AA	1989-2001265	19891023	
		CA 2001265	C	19901051	2A 1989-8026	
		ZA 8908026	A	1994075	19891024	
		IL 92102	A1	1994075	IL 1989-2102	
		SO Merrell Dow Pharmaceuticals, Inc., USA				
		CODEN: BXKDW				
		DT Patent				
		LA English				
		FAN.CNT 1				
		PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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		PI EP 371179	A1	19900616	EP 1988-402735	19881028
		R: FR				
		CA 2001265	AA	1989-2001265	19891023	
		CA 2001265	C	19901051	2A 1989-8026	
		ZA 8908026	A	1994075	19891024	
		IL 92102	A1	1994075	IL 1989-2102	

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 307837	A2	1980-03-22	EP 1988-11-14-67	1980-09-12
EP 307837	A3	1991-12-11	GB, FR, IT, LI, LU, NL, SE	
R. R. AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE			AU 1988-11-22-23	1988-09-14
AU 892223	A1	1980-04-22	AU 1990-08-15	
AU 613956	B2	1980-09-04	JP 1988-23-14-30	1988-09-14
JP 01221357	A2	1980-03-17	DK 1988-51-46	1988-09-15
DK 8805146	A	1980-03-17	US 1988-23-18-69	1988-09-16
OS MARPAT 111-214942			1988-08-15	
L8 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2003 ACS				
AN 1989-11-27-60 CAPLUS				
DN 110-17-3760				
Preparation of renin-inhibiting Peptides				
IN Hagenbach, Alexander; Metternich, Rainer; Pfenniger, Emil; Weidmann, Beat				
PA Sand, A.-G., Switz.				
SO Brit., UK Pat. Appl. 88 PP.				
CODEN: BAXXDU				
DT Patent				
LA English				
FAN-CNT 2				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 23000115	A1	1980-07-27	GB 1988-10-04	1988-01-18
NL 48000100	B2	1990-11-14	NL 1988-10-00	1988-01-18
CH 576988	A	1980-08-16	CH 1988-157	1988-01-18
FR 2609716	A1	1980-07-28	FR 1988-6-36	1988-01-18
DK 8800225	A	1980-07-22	DK 1988-225	1988-01-19
AU 8810375	A1	1980-09-01	AU 1988-103-5	1988-01-19
BE 020212	A5	1990-01-16	BE 1988-103-5	1988-01-19
SE 18800169	A	1980-07-22	SE 1988-169	1988-01-20
JP 01019053	A2	1980-10-23	JP 1988-10571	1988-01-20
ZA 88000415	A	1980-09-27	ZA 1988-415	1988-01-21
PRAI DE 1987-3701526		1987-370121		
OS MARPAT 110-173760		19870307		
L8 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2003 ACS				
AN 1959-99544 CAPLUS				
ORF 53:17916b-1,17917a-d				
Cytocyclic amino acids and peptides. VII. Derivatives				
of serine and threonine				
AU Berger, F.; Wade, Roy				
CS Roy Cancer Hosp., London				
SO J. Chem. Soc. (1959) 941-7				
DT Journal				
LA Unavailable				
=> d abs 6				
L8 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2003 ACS				
AB cf. C.A. 53, 12201e. Amino acid derivs. carrying the				
"nitrogen mustard" radical as an amido group were synthesized in the form				
of O-[N,N-bis(2-chloroethyl)carbamoyl]-DL-serine (I) and L-serine (I) (II)				
-DL-threonine (III). A no. of other N-substituted O-carbamoyloxy-derivs. were				
prepd. The N-benzyloxycarbonyl-(IV) and N-(p-nitrobenzyl-				
carbonyl)threonine (V), and to a smaller extent the corresponding serine				
compds. (VI), (VII), produced oxazolidones on treatment with alkali. In				

view of the contrasting bio. behavior of the I-III, the hydrolysis of these compds. in vitro was studied and iso-Pr-N,N-bis(2-chloroethyl)carbamate (VIII) was synthesized. VIII, like III, was inactive in antitumor tests while I and the "ethyl carbamate mustards" showed remarkable activity. VI prep. (33%) and esterified gave a crude product which heated 0.5 hr. at 100-20-degree./1 mm. gave (Bt20-11grocine). Benzyloxycarbonyl-L-serine benzyl ester (IX) prep'd. as (Bt20-11grocine). COCl2 was passed 20 min. at 0 degree. into above m. 82-3 degree. H2O, Et2O (5 ml./g.) and stirred 3 hrs., dry. a suspension of 10 g. IX or X in 200 ml. C6H6 or PMe6. Stirred 3 hrs., dry. N bubbled through until all HCl and COCl2 had been removed, and the solvent evapd. below 40 degree.. No attempt was made to crystallize the crude N-benzyloxycarbonyl-O-chlorocarbonyl-DL-serine benzyl ester (X) (XII) which were used in the coupling exps. Solns. of XI or XII in C6H6 (about 3 ml./g.) cooled during addn. of 2.3 equivs. of various bases in Et2O (5 ml./g.), the soins. kept at room temp. overnight, washed with dil. acid. NaHCO3 soln. H2O, dried, and evapd. in vacuo. Gave 71% PhCH2O2CNHICH(C2H2Cl)2C2C2N, m. 70-1 degree., 83% L-isomer, m. 54-5 degree., 75% PhCH2O2CNHICH(C2H2Cl)2C2C2N, m. 102-3 degree., 82% PhCH2O2CNHICH(C2H2Cl)2C2C2Ph, m. 56-7 degree.. DL-Serine Me ester-HCl m. 114 degree. (decomp.). VI Me ester, b1 (XII) (XIII) which were used in the coupling exps. of C6H6, and C6H6 (about 3 ml./g.) cooled during addn. of the O-chlorocarbonyl deriv., in the same way as the benzyl ester is described above and this coupled in 40 ml. C6H6 with 9.9. HN(CH2CH2Cl)2 gave 63% N-benzyloxycarbonyl-1-O-[N,N-bis(2-chloroethyl)-carbamoyl]-DL-serine Me ester, m. 79-80 degree. IV prep'd. from 10 g. DL-threonine (not obtained cryst.) and converted (18.9 g.) into the benzyl ester directly by refluxing 8 hrs. under a H2O trap with 18 ml. PhCH2OH 180 ml. C6H6, and 178-183 degree.. VI Me ester (7.9) converted into the O-chlorocarbonyl deriv., in the same way as the benzyl ester is described above and this coupled in 40 ml. C6H6 with 9.9. HN(CH2CH2Cl)2 gave 63% N-benzyloxycarbonyl-1-O-[N,N-bis(2-chloroethyl)-carbamoyl]-DL-serine Me ester, m. 79-80 degree. IV prep'd. from 10 g. DL-threonine (not obtained refluxing 8 hrs. under a H2O trap with 18 ml. PhCH2OH 180 ml. C6H6, and 0.5 g. P-MeGhS03H. Gave 49% IV benzyl ester, m. 63-64 degree. (Et20-11grocine). DL-Threonine m. 6.4 g. HN(CH2CH2Cl)2 gave 60% Portionwise at 5 degree. with 3.9 g. benzyl chloroformate, the pH maintained at 8-10 by addn. of NaHCO3, the mix., shaken 1 hr., excd. with EtOAc, and the solvent evapd. Gave 52% 5-methyl-2-oxoazolidine-4-carboxylic acid (XIII), prisms, m. 123-4 degree. (EtOAc-Ligroine). IV-VII (0.01 mole) in 10 ml. 2N NaOH shaken several min. at room temp., the mixt. extd. with EtOAc, the aq. layer acidifed, the soin. extd. with EtOAc, dried, and evapd. gave crude product. Trituration with Ligroine and recryst. of the solids from EtOAc-Ligroine gave pure products IV and V gave XIII, XIII (0.5 g.) refluxed 6 hrs. with 10 ml. concd. HCl, the residue dissolved in 10 ml. MeOH, hydrogenized with 200 mg. 5% Pd-C, the catalyst alc., and treated with 0.5 ml. morpholine gave 350 mg. threonine, m. 26 degree. (decomp.). The amino acid was benzylied and the solvent evapd. In the case of N-benzyloxycarbonyl-O-[N,N-bis(2-chloroethyl)-carbamoyl]-DL-serine Me ester, concd. HCl was added to the MeOH soln. before hydrocogenolysis and the produced isolated as the HCl salt. The following results were obtained: 82% I, m. 140 degree.; 98% II, m. 117 degree.; 77% H2NCH(C2H2Cl)2C2C2N, m. 121 degree.; 95% H2NCH(C2H2Cl)2C2C2N, m. 180 degree.; 83% H2NCH(C2H2Cl)2C2C2N, m. 115-16 degree.; 95% H2NCH(C2H2Cl)2C2C2N, m. 30 degree.. O-[N-bis(2-chloroethyl)carbamoyl]-DL-serine Me ester-HCl series was prep'd. by sgtg. a suspension of the corresponding amino acid. in dry MeOH with HCl at 5-degree.. The clear soln. was evapd. to dryness

and the residue recrystd. from MeOH:Et₂O (yield 78%). Hydrolysis expts. on I-III were as follows. The compd. (0.1 millimole) in 50 ml. H₂O kept at 37-degree. was kept from atm. CO₂ by argon and the pH of the soln. kept at 24 hrs. at 7.4. The results were tabulated. In the case of I the compd. was decomposed into relatively stable intermediate which itself decompd. to a 2nd intermediate which yielded serine. Similarly, III gave threonine with pH₀ as solvent, serine and the 2 preceding intermediates have Rf 0.30 and the bis (2-hydroxyethyl)carbamoyl-DL-serine has Rf 0.72. Iso-Pr chloroformate (12.3 g.) in 40 ml. CS₆H₆ added dropwise at 20-5 degrees. to HN(CH₂CH₂)₂ in 200 ml. Et₂O and washed the next morning with dil. acid. dil. NaHCO₃, and H₂O gave 65% VIII, b.p. 121-3.degree..

=> s amino acid carbonate?

902658 AMINO S

41 AMINOS

902675 AMINO (AMINO OR AMINOS)

3567624 ACID (ACID OR ACIDS)

1559328 ACIDS

4130256 ACID (ACID OR ACIDS)

260251 CARBONATE?

17 AMINO ACID CARBONATE?

(AMINO (W) ACID (W) CARBONATE?)

L9 0 L7 AND AMINO ACID CARBONATE?

=> s amino acid carbonate?

902658 AMINO S

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902675 AMINO (AMINO OR AMINOS)

3567624 ACID (ACID OR ACIDS)

1559328 ACIDS

4130256 ACID (ACID OR ACIDS)

L10 260251 CARBONATE?

17 AMINO ACID CARBONATE?

(AMINO (W) ACID (W) CARBONATE?)

=> s 110 and chloro?

L11 843327 CHLORO?

1 L10 AND CHLORO?

=> d abs

L11 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

DN 80:133784 CAPLUS

TI Peptides. V. Carboneates of ethyl 2-hydroximino-2-cyanoacetate and related compounds as esterification reagents for peptide synthesis

AU Itoh, Masumi

CS Res. Lab., Fujisawa Pharm. Co., Ltd., Osaka, Japan

SO Bulletin of the Chemical Society of Japan (1974), 47(2), 471-5

CODEN: BCSJAS; ISSN: 0009-2673

DT Journal

LA English

=> d his

L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

AN 1974:133784 CAPLUS

DN 80:133784 TI Peptides. V. Carbonates of ethyl 2-hydroximino-2-cyanoacetate and related compounds as esterification reagents for peptide synthesis

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CODEN: BCSJAS; ISSN: 0009-2673

DT Journal

LA English

=> d abs

L11 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

GI For diagram(s), see printed CA issue.

AB Seventeen carbonates (I, R = Br, Me, CN, Me, CO₂R) of Et 2-hydroximino-2-

CO₂R, CO₂Et, H, Me; R₂ = CN, Me, CO₂E)

L14 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2003 ACS

cynoacetate and 2-hydroximino-2-cyanoacetamide were prep'd. and utilized as esterification reagents for R₃CO₂(RCOOH = PhCO₂H, PhCH₂O₂-Gly-OH, PhCH₂O₂-Trp-OH, H-Phe-OH, etc.) to yield R₃CO₂R and/or R₃CO₂N_{CR1R2}.

=> s 110 and chlorocarbonate
12.4 CHLOROCARBONATE
164 CHLOROCARBONATES
1365 CHLOROCARBONATE (CHLOROCARBONATE OR CHLOROCARBONATES)
L12 1 L10 AND CHLOROCARBONATE

=> d his

L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

AN 1974:133784 CAPLUS

DN 80:133784 TI Peptides. V. Carbonates of ethyl 2-hydroximino-2-cyanoacetate and related compounds as esterification reagents for peptide synthesis

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L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

AN 1974:133784 CAPLUS

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L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

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L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

AN 1974:133784 CAPLUS

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AN 1974:133784 CAPLUS

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SO Bulletin of the Chemical Society of Japan (1974), 47(2), 471-5

CODEN: BCSJAS; ISSN: 0009-2673

DT Journal

LA English

AN	2002-1575066	CAPLUS	DN	1999-19360	CAPLUS	
DN	137-140777	TI	Preparation of piperazine-1,4-diazepinyl amino acid derivatives as melanocortin receptor agonists	132-14524	Preparation of N-thiazolidinylcarbonylphenylalanine derivatives and analogs as inhibitors of alpha-4/beta-1 mediated cell adhesion	
IN	Bisgaard, Christopher Kelly; Briner, Karin; Doecke, Christopher William; Fisher, Matthew Joseph; Hertel, Larry Wayne; Mancuso, Vincent; Martinelli, Michael; John; Mayer, John Philip; Osseschein, Paul Leslie; Richardson, Timothy; Ryo; Shah, Jikesh Arvind; Shi, Qing; Wu, Zhipai; Xie, Chaoyu	Patent	Blinn, James R.; Chrusciel, Robert A.; Fisher, Jed F.; Tsegardan, Thomas J.; Tsegardan, Bradley R.; Thomas, Edward William; Loh, Thomas J.; Upjohn Company, USA; Tanabe Seiyaku Co., Ltd.	IN	Blinn, James R.; Chrusciel, Robert A.; Fisher, Jed F.; Tsegardan, Thomas J.; Tsegardan, Bradley R.; Thomas, Edward William; Loh, Thomas J.; Upjohn Company, USA; Tanabe Seiyaku Co., Ltd.	
PA	PCT Int. Appl. 2001-356 pp.	SO	Pharmacia and Upjohn Company, USA; Tanabe Seiyaku Co., Ltd.	PA	Pharmacia and Upjohn Company, USA; Tanabe Seiyaku Co., Ltd.	
SO	PCT Int. Appl. 2001-356 pp.	DT	CODEN: PIXXD2	SO	PCT Int. Appl. 2001-356 pp.	
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LA	English	FAN.CNT 2	FAN.CNT 2	LA	English	
PI	WO 2002059108	KIND	APPLICATION NO.	DATE	APPLICATION NO.	DATE
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TR:	DK 1999-06233	DK	19990623	DK 1999-06233	DK 1999-06233	
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DT	CODEN: PIXXD2	AU 8335660	EP 1989-30566	EP 1989-30566	EP 1989-30566	19890512
LA	Patent	EP 415981	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE	JP 19901919	JP 1989-50633	JP 19890512
LA	English	JP 0504247	T2	19880513	19880513	19890512
FAN, CNT	2	PRAI US 1588-19678	WO 1989-105678	WO 1989-105678	WO 1989-105678	WO 1989-105678
PATENT NO.		MARPAT 114-247788	OS	19890512	19890512	19890512
PI	WO 9203423	A1	WO 1991-GB1192	19910815	L14	ANSWER 11 OF 13 CAPLUS COPYRIGHT 2003 ACS
	W: AU, CA, PT, HU, P, KR, NO, US	WO 1991-GB1192	19910815	AN 1991-11078 CAPLUS	AN 1991-11078 CAPLUS	AN 1991-11078 CAPLUS
	CH, DE, DK, ES, FR, GR, IT, LU, NL, SE	CA 1991-2084761	19910815	TI	Amino acid transport proteins, amino acid analogues, assay apparatus, uses thereof for treatment and diagnosis of cancer	
	CA 2088761	AA	CA 1991-2084761	19910815	IN	Palmer, Clive Frederick; McEvoy-Bowe, Edward; Meehan, George Victor; Piva, Terence; Rigan, Donna; Favot, Paul; West, Michael; McCabe, Michael; Grenville Peter; Miller, David John
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	US 5180723	A	US 1990426	19910815	LA	Patent
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	ZA 9106468	A	ZA 1990426	19910815	PI	WO 9003399
	EP 5438858	A1	EP 1990602	19910815	W: AT, AU, BB, BG, BR, CH, DE, DK, FI, GB, HU, JP, KP, KR, LX, LU, MC, MG, MM, NL, NO, RO, SD, SU, US	
	EP 5438858	B1	EP 1991-91448	19910815	RW: AT, BE, BJ, BF, BG, CG, CH, CM, DE, FR, GA, GB, IT, LU, ML, MR, NL, SE, SN, TD, TG	
	JP 0503116	R:	JP 1991-51376	19910815	CN 1989-108735	CN 1989-108735
	JP 0503116	A1	JP 1991-51376	19910815	AU 89041612	AU 1989-43294
	JP 2376004	B2	JP 1990113	19910815	AU 89041612	AU 1989-911006
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	AT 198197	E	AT 1991-914348	19910815	JP 0504031	JP 1989-510278
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	NO 9100498	A	NO 1993-98	19930212	JP 0504031	JP 1989-510278
	NO 9100498	A	US 1993-146302	19931101	JP 0504031	JP 1989-510278
	AU 9453190	A1	AU 1994-53090	19940107	JP 0504031	JP 1989-510278
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	NO 9702615	A	NO 1997-2615	19970606	JP 0504031	JP 1989-510278
	JP 1131070	A2	JP 1999-94507	19990401	JP 0504031	JP 1989-510278
	JP 3122075	B2	JP 20001225	19990815	JP 0504031	JP 1989-510278
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	GB 1991-12257	A	GB 1990614	19900815	JP 0504031	JP 1989-510278
	JP 1991-511676	A3	JP 1990815	19900815	JP 0504031	JP 1989-510278
	JP 1991-745471	A1	JP 1990815	19900815	JP 0504031	JP 1989-510278
	US 1991-745246	A1	US 1991-745246	19910815	JP 0504031	JP 1989-510278
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	OS	MARPAT 117-127149	TI	Peptide derivatives Preparation as retroviral protease inhibitors	LA	ANSWER 12 OF 13 CAPLUS COPYRIGHT 2003 ACS
	IN	Kempf, Dale J.; Platner, Jacob J.; Norbeck, Daniel W.; Boyd, Steven A.; Baker, William R.; Erickson, John W.; Fung, Anthony K. L.; Crowley, Steven R.	AN 1990-217541	Preparation and testing of peptide analogs as renin inhibitors	DN 112-217541	AN 1990-217541
	Abbott Laboratories, USA	AN 1991-247788	CAPLUS	Branca, Quirico; Edelhofer, Albrecht; Gucknecht, Eva Maria; Neidhart, Werner; Samu, Henri; Wostl, Wolfgang	IN IN	TI
	PCT Int. Appl., 222 pp.	DN 114-247788	CAPLUS	Hoffmann-La Roche, F. und Co. A.-G., Switz.	PA PA	SO SO
	CODEN: PIXXD2	EP 342541	A2	Eur. Pat. Appl., 74 pp.	DT DT	DT
	DT Patent	EP 342541	A3	CODEN: EPXXDW	LA LA	German
	English	MARPAT 114-115078	OS	19890512	FAN, CNT	1
	FAN, CNT	1		19890512	Patent	German
	PATENT NO.			19890512	FAN, CNT	1
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	W: AU, DK, PT, KR, US	WO 1989-US2055	19890512	EP 310918	A2	19890412
	CH, DE, FR, GB, IT, LU, NL, SE	CA 1991-2084761	19910815	EP 310918	A3	19901212
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					R: AT, BE, CH, DE, ES, FR, GB, IT, LI, LU, NL, SE	

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ZA	8807322	A	19890528	2A 1988-7322
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AU	8823307	A1	19920820	1988030
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HU	9322	A2	19890528	HU 1988-5114
NO	8804234	A	19890407	19881003
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JP	0226658	A2	1988-257886	19881006
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PRAI	CH 1987-3903		US 1992-879522	19920504
OS	US 1988-234003		US 19871006	
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L1.4	ANSWER 13 OF 13 CARLUS	COPYRIGHT 2003 ACS		
DN	1988-614942	CARLUS		
DN	11.1-21.1942			
TI	Preparation of renin-inhibiting peptidylheterocycles and their intermediates for treatment of hypertension			
IN	Rosenberg, Saul; Howard, Sham; Leung, Baker; William R.; Dellaria, Joseph F., Jr.; Kempf, Dale J.			
PA	Abbott Laboratories USA			
SO	Eur. Pat. Appl., 103 pp.			
CODEN: EPXXDW				
DT	Patent			
LA	English			
FAN.CNT 1	PATENT NO.	KIND	DATE	APPLICATION NO. DATE
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	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE			
AU	8822223	AI	19890420	AU 1988-2223 - 19880914
AU	613356	B2	19910815	
JP	01221357	A2	19890904	JP 1988-231430 - 19880914
PRAI	US 1987-97553	A	19870916	JP 1988-5146 - 19880915
OS	US 1988-231869		19880916	
	MARPAT 111:214942			
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	902658 AMINO			
	902675 AMINO			
	41 AMINOS			
	(AMINO OR AMINOS)			
	3567624 ACID			
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	4030256 ACID			
	(ACID OR ACIDS)			
	574782 AMINO ACID			
	(AMINO (W) ACID)			
	685170 MIXED			
	6 MIXEDS			
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	1610 CHLOROFORMATES			
	17283 CHLOROFORMATE			
	(CHLOROFORMATE OR CHLOROFORMATES)			
	1724 CHLOROCARBONATE			
	164 CHLOROCARBONATES			
	1365 CHLOROCARBONATE			
L1.5	84 AMINO ACID AND MIXED ANHYDRIDE? AND (CHLOROFORMATE OR CHLOROCARBONATE)			
	=> s 115 and easy			
	7414 EASY			
	1 EASIES			
	74815 EASY			
	(EASY OR EASIES)			
L1.6	0 L15 AND EASY			
	=> s 115 and one-step			
	1637662 ONE			
	135606 ONES			
	1747669 ONE			
	(ONE OR ONES)			
	342577 STEP			
	218463 STEPS			
	522420 STEP			
	(STEP OR STEPS)			
	17425 ONE-STEP			
	(ONE (W) STEP)			
L1.7	1 L15 AND ONE-STEP			
	=> d			
L1.7	ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS			
	1988-57469 CAPLUS			
	DN 110-57469			
	TI Amino acid derivatives of 2-(p-chlorophenoxy)-2-			
	methylpropionic acid as potential antiipenic agents. I. Preparation of 1-[alpha]-[(p-chlorophenoxy) 2-methylpropionylamino] -alpha -alkyl acetylpyridine and -piperidine			
	AU Kwapinski, Wlodek; Borowska, Leszek			
	CS Dep. Pharm. Chem., Sch. Med., Warsaw, 02097, Pol.			
	SO Acta Polonae Pharmaceutica, (1987), 44 (1), 1-11			
	CODEN: APPHA; ISSN: 0001-6337			
	DT Journal			
	LA Polish			
	OS CASREACT 110-57469			
L1.8	ANSWER 1 OF 11 CAPLUS COPYRIGHT 2003 ACS			
	2001-394823 CAPLUS			
	DN 135151090			
	TI 9-amino-4,5-diazafluorene-9-carboxylic acid (daf), a new C-alpha-, alpha-disubstituted glycine containing a spatially constrained bipyridine-like ligand for transition metals - synthesis and evaluation of peptide-coupling conditions at its C- and N-termini			
	AU Mazaleyrat, Jean Paul; Wright, Karen; Wakselman, Michel; Formaggio, Fernando; Crimi, Marco; Tonello, Claudio			
	CS SIRCOB, ESA CNRS 0016, Universite de Versailles, Versailles, 78000, Fr.			
	SO European Journal of Organic Chemistry (2001), (10), 1821-1829			
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	PB Wiley-VCH Verlag GmbH			
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AU Benoiton, N.; Leo, Lee; Young, C.; Chen, Francis M. F.
CS Dep. Biochem., Univ. Ottawa, Ottawa, ON, Can.
SO International Journal of Peptide & Protein Research (1993), 42(3), 278-83
CODEN: IJPPC3; ISSN: 0367-8377
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AN 1992:54298 CAPLUS
DN 117:142298
TI Optically active complexes of transition metals (rhodium(I), ruthenium(II), cobalt(II) and nickel(II)) with 2-amminocarbonylpyrrolidine ligands. Selective catalysts for hydrogenation of prochiral olefins
AU Correa, A.; Iglesias, M.; Del Pino, C.; Sanchez, F.
CS Inst. Technol. Quim., UPV, Valencia, 46071, Spain
SO Journal of Organometallic Chemistry (1992), 431(2), 233-46
CODEN: JORCAI; ISSN: 0022-328X
DT Journal
LA English
- L18 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2003 ACS
AN 1994:214884 CAPLUS
DN 116:214884
TI A new class of bradykinin antagonists: synthesis and in vitro activity of bisuccinimidokalanopeptide dimers
AU Chezonis, John C.; Whalley, Eric T.; Nguyen, Khe T.; Eubanks, Shad R.; Allen, Lisa G.; Dugan, Matthew J.; Loy, Sharon D.; Bonham, Kathryn A.; Corrêa, James K.
CS CorTech, Inc., Denver, CO, 80221, USA
SO Journal of Medicinal Chemistry (1992), 35(9), 1563-72
CODEN: JMCMAR; ISSN: 0022-2623
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LA English
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AN 1992:247788 CAPLUS
DN 114:247788
TI Peptide derivatives preparation as retroviral protease inhibitors
IN Kemp, Dale J.; Piattner, Jacob J.; Norbeck, Daniel W.; Boyd, Steven A.; Baker, William R.; Erickson, John W.; Fung, Anthony K. L.; Crowley, Steven R.
PA Abbott Laboratories, USA
SO PCT Int. Appl.; 222 pp.
DT Patent
LA English
FAN.CNT 1
PATENT NO. ----
PI WO 9101052 W: AU, DK, JP, KR, US
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE
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- R: ES, GR
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OS MARPAT 114:247788
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A1 19910133
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DN 113:113877
IN Chmiak, Andrzej; Nakonieczna, Lucja
PA Politechnika Gdanska, Pol.
SO Pol.: 8 PP. Abstract and indexed from the unexamined application.
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DT Patent
LA Polish
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PI PL 147573
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- A1 19890630
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TI Mixed anhydrides in peptide synthesis. A study of urethane formation with a contribution on minimization of racemization
AU Chen, Francis M. F.; Lee, Young; Steinauer, Rene; Benoiton, N. Leo
CS Dep. Biochem., Univ. Ottawa, Ottawa, ON, K1H 8M5, Can.
SO Canadian Journal of Chemistry (1987), 65(3), 613-18
CODEN: CJCHAG; ISSN: 0008-4042
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LA English
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- L18 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2003 ACS
AN 1975:572672 CAPLUS
DN 83:172672
TI Methotrexate analogs. 6. Replacement of glutamic acid by various amino acid esters and amines
AU Chaykovsky, Michael; Brown, Barbara L.; Modest, E. J.
CS Sidney Farber Cancer Cent., Boston, MA, USA
SO Journal of Medicinal Chemistry (1975), 18(9), 909-12
CODEN: JMCMAR; ISSN: 0022-2623
DT Journal
LA English
- L18 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2003 ACS
AN 1988-38354 CAPLUS
DN 108:38354
TI Mixed anhydrides in peptide synthesis. A study of urethane formation with a contribution on minimization of racemization
AU Chen, Francis M. F.; Lee, Young; Steinauer, Rene; Benoiton, N. Leo
CS Dep. Biochem., Univ. Ottawa, Ottawa, ON, K1H 8M5, Can.
SO Canadian Journal of Chemistry (1987), 65(3), 613-18
CODEN: CJCHAG; ISSN: 0008-4042
DT Journal
LA English
OS CASREACT 108:38354
- L18 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2003 ACS
AN 1975:572672 CAPLUS
DN 83:172672
TI Methotrexate analogs. 6. Replacement of glutamic acid by various amino acid esters and amines
AU Chaykovsky, Michael; Brown, Barbara L.; Modest, E. J.
CS Sidney Farber Cancer Cent., Boston, MA, USA
SO Journal of Medicinal Chemistry (1975), 18(9), 909-12
CODEN: JMCMAR; ISSN: 0022-2623
DT Journal
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- L18 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2003 ACS
AN 1972:113499 CAPLUS
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TI Diaminodicarboxylic acids. III. Reactivity of R,S- and RR,SS-diaminodicarboxylic acids. Symmetrical and unsymmetrical derivatives
AU Biernat, Jan F.
CS Politech. Gdansk, Gdansk, Pol.
SO Roczniki Chemii (1971), 45(12), 2081-7
CODEN: ROCHAC; ISSN: 0035-7677
DT Journal
LA English
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AN 1964:91243 CAPLUS
DN 60:1243
OREF 60:15909g-h,1591a-e
TI Suppression of racemization during peptide synthesis
AU Applewhite, Thomas H.; Neilson, Jane S.
CS U.S. Dept. of Agr., Albany, CA
SO Tetrahedron Letters (1964), (15-16), 819-25
DT Journal
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L18 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2003 ACS
AN 1961:17629 CAPLUS
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OREF 55:1457e-i,3458a-i,3459a-f
TI Amino acids and peptides. XV. Racemization during
peptide synthesis
AU Smart, N. A.; Young, G. T.; Williams, M. W.
CS Univ. Oxford, UK
SO J. Chem. Soc. (1960) 3902-12
DT Journal
LA Unavailable

=> DA BS 2
DA IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (>>).

=> D ABS 2

L18 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2003 ACS
AB Generation of a mixed anhydride using Et or iso-Pr
chloroformate and N-methylmorpholine in CH₂Cl₂ at room temp.
followed by addn. of excess ring-substituted phenol or N-substituted
hydroxylanine and a catalytic amt. of tertiary amine, provides
an efficient synthesis of activated esters.